

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-4-178

Relating to Certification of New Medium-Duty Vehicle Engines

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 1996 model-year Navistar International Transportation Corporation diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
TNV7.3B8D0AA	7.3 (444)	Oxidation Catalytic converter Turbocharger Engine Control Module

Engine model and code are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

<u>Non-Methane Hydrocarbons + Nitrogen Oxides</u>	<u>Carbon Monoxide</u>	<u>Particulates</u>
3.9	14.4	0.10

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

<u>Engine Family</u>	<u>Non-Methane Hydrocarbons + Nitrogen Oxides</u>	<u>Carbon Monoxide</u>	<u>Particulates</u>
TNV7.3B8D0AA	3.8	2.0	0.08

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional standards and test procedures applicable to incomplete and diesel medium-duty vehicles of 8,501 to 14,000 pounds GVWR pursuant to Title 13, California Code of Regulations, Section 1956.8(g).

BE IT FURTHER RESOLVED: That the listed engine models shall be subject to the in-use compliance provisions applicable to 1995 and subsequent model-year medium-duty vehicles set forth in Title 13, California Code of Regulations, Section 2139(c).

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed engine models are not subject to the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

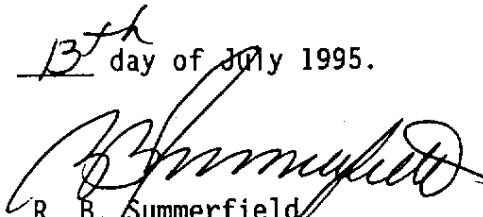
BE IT FURTHER RESOLVED: That the listed engine models have been exempted from the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 13th day of July 1995.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET
INCOMPLETE OR DIESEL MEDIUM-DUTY VEHICLE ENGINES
CERTIFIED USING HEAVY-DUTY ENGINE TEST PROCEDURES

Manufacturer: Navistar InternationalEngine Family: TNV7.3B8D0AA (7.3DIT)

PROJECTED EMISSIONS (1)

SMOKE (%) (2) EXHAUST (gm/bhp-hr)
(Check One)

Engine Code	Displ. (CID)	Engine I.D.	Test Loc	Accel	Lug	Peak	OMHCE	OMHCE+NOX	PM	HCHO	CO2
A220C	7.3	52880 (96-02)	Melrose Park	3	4	5	X NMHC	NMHC+NOX	0.084		
							0.21	3.85			
							CO	NOx			
							2.03	3.64			

(1) The emission data engine(s) above
comply with standards of:

20	15	50	14.4	3.9	0.10
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and include deterioration factors of:

1.2	0.0	1.2	1.13	1.56	1.00	1.007
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(2) Diesel engine only

Engine Intended Service Class: M4 M5 Intended GVW Range 8,501-14,000

Engine Exhaust Emission Correlation Factor to MDV Chassis Platforms:

(Additional correlation factors MAYBE listed on attachments.)

Remarks Navistar wants to use engine-dyno for their MDV In-use compliance.

Application

Processed by Michael HamDate: 7-11-95Reviewed by: JamesDate: 7-12-95

Date Issued: 6/30/95

17~01.01

MDV

/ 17.01-2

DIT